

Thermal tolerant cellulase from *Acidothermus cellulolyticus*

Abstract of the Disclosure

5 The invention provides a thermal tolerant cellulase that is a member of the glycoside hydrolase family. The invention further discloses this cellulase as GuxA. GuxA has been isolated and characterized from *Acidothermus cellulolyticus*. The invention further provides recombinant forms of the identified GuxA. Methods of making and using GuxA polypeptides, including fusions, variants, and derivatives, are also disclosed.